

WHAT IS CLAIMED IS

1. A power hand tool comprising:

a body;

5 an electric motor located in the body and having a shaft for driving a connector for connecting and driving an implement, the motor having a metal casing;

an enclosure enclosing the motor for protection against liquid, the enclosure including a thermally
10 conductive part that is exposed to the exterior outside the body; and

a thermal conductor in contact with the motor casing and the enclosure part for conducting heat from the motor to the enclosure part for heat dissipation.

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2. The power hand tool as claimed in claim 1, wherein the enclosure part is situated outside the body.

3. The power hand tool as claimed in claim 1 or claim
20 2, wherein the enclosure has an opening that is closed by the enclosure part.

4. The power hand tool as claimed in any one of claims 1 to 3, wherein the enclosure part is positioned in close
25 proximity to the connector.

5. The power hand tool as claimed in claim 4, wherein the enclosure part has an apertured portion through which the connector extends from inside the enclosure.

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6. The power hand tool as claimed in claim 5, wherein the apertured portion is tubular and supports the connector for rotation.

10 7. The power hand tool as claimed in any one of claims 1 to 6, wherein the thermal conductor is in surface contact with an end wall of the motor casing through which the motor shaft projects.

15 8. The power hand tool as claimed in any one of claims 1 to 7, wherein the thermal conductor is secured by screws to the motor casing.

9. The power hand tool as claimed in any one of claims
20 1 to 8, wherein the thermal conductor is secured by screws to the enclosure part.

10. The power hand tool as claimed in any one of claims 1 to 9, wherein the thermal conductor has a central part

in contact with the motor casing and opposite side parts
in contact with the enclosure part.

11. The power hand tool as claimed in claim 10,
5 including a gearbox connected between the motor shaft and
the connector, which is flanked by the side parts of the
thermal conductor.

12. A power hand tool comprising:

10 a body;

an electric motor located in the body and having a
shaft for driving a connector for connecting and driving
an implement, the motor having a metal casing;

an enclosure enclosing the motor for protection
15 against liquid; and

a heat sink as at least part of the enclosure in
contact with the motor casing for conducting heat from
the motor within the enclosure and then dissipating the
heat out of the enclosure.